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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/597,763	06/20/2000	Kazuo Hata	2000.0776A 5987	
7590 10/21/2003		EXAMINER		
Wenderoth Lind & Ponack LLP			WATKINS III, WILLIAM P	
Suite 800 2033 K Street NW			ART UNIT	PAPER NUMBER
Washington, DC 20006			1772	14
			DATE MAILED: 10/21/2003	(10

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	09/597,763	HATA ET AL.			
Office Action Summary	Examiner	Art Unit			
	William P. Watkins III	1772			
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e. cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on 28	<u>July 2003</u> .				
2a) This action is FINAL . 2b) ☑ The	his action is non-final.				
3) Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims	rance except for formal matters, pr Ex parte Quayle, 1935 C.D. 11, 4	osecution as to the merits is 53 O.G. 213.			
4) Claim(s) 1-7 is/are pending in the application.	•				
4a) Of the above claim(s) is/are withdra	wn from consideration.				
5) Claim(s) is/are allowed.	•				
6)⊠ Claim(s) <u>1-7</u> is/are rejected.		·			
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examine					
10)☐ The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by the Exam	miner.			
Applicant may not request that any objection to the					
11) The proposed drawing correction filed on		oved by the Examiner.			
If approved, corrected drawings are required in re					
12) The oath or declaration is objected to by the Ex	xaminer.				
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the price application from the International But See the attached detailed Office action for a list 	ureau (PCT Rule 17.2(a)).				
14) Acknowledgment is made of a claim for domest					
a) The translation of the foreign language pro	ovisional application has been rec	eived.			
Attachment(s)		•			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 26 June 2003 has been entered.
- 2. The rejection over Takeuchi et al. has been withdrawn in view of applicant's arguments.
- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aikawa et al. (EP 0 704 413-A2).

Aikawa et al. teach a maximum surface roughness of a ceramic sheet of less than .8 microns, the ceramic being made of zirconia stablilized with yttrium and having a waviness of 20 microns, with the average particle size in the green sheet being .22 microns and most of the particles being below .7 microns in size, and the total thickness of the sheet being 200 microns (Example 1). Aluminum oxide may be added to the green sheet (Example 5) and the sheets may be used in fuel cells (page 3, lines 20-23). The instant invention claims a ceramic sheet with a burr height and dimple height less than 100 microns. It would have been obvious to one of ordinary skill in the art that a maximum surface roughness of less than .8 microns would limit burr and dimple heights to less than 100 microns because of the teachings of Aikawa et al. that a flat surface is desired (page 3, lines 37-38).

^{3.} Any inquiry concerning this communication or earlier communications from the examiner should be directed to William P. Watkins III whose telephone number is 703-308-2420. The examiner works an increased flex time schedule, but can normally be reached Monday through Friday, 11:30 A.M. through 8:00 P.M. Eastern Time. The examiner returns all calls within one business day unless an extended absence is noted on his voice mail greeting.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 703-308-4251. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

Millian O. Westen Def

WW/ww October 18, 2003

WILLIAM P. WATKINS III PRIMARY EXAMINER